PATENT ABSTRACTS OF JAPAN

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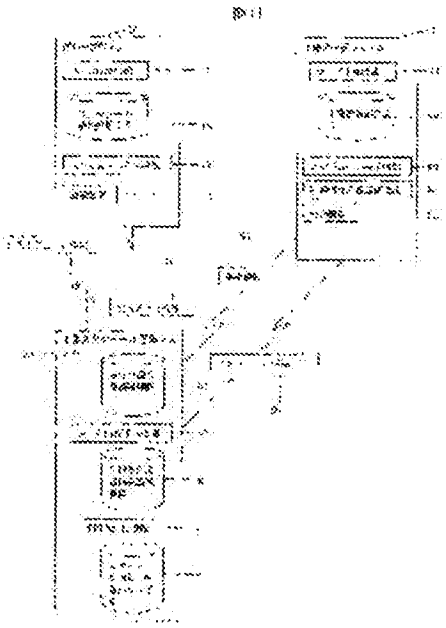
(54) SYSTEM FOR MANAGING OPERATION SCHEDULE

(57)Abstract:
PROBLEM TO BE SOLVED: To eliminate a trouble, i.e., non-existence of an operation schedule management system to determine a proper operation room and members, based on the content of the operation, reserve the operation room, and communicate them to participants.
SOLUTION: A system for setting an operation schedule linked with a medical order system, a system for managing the schedules of institutions and the personnel, and a mail system is organized. The system includes: a condition file to select the operation room and the members; and a mail destination file. Operation information is acquired from the medical order system, and the operation room which meets a condition and the members are selected. The schedule is set linked with the schedule management system, and then, a mail is transmitted to the participants in cooperation with the mail system.



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CLAIMS

[Claim(s)]
[Claim 1]
A medical order system, and a facility and the schedule information management system which manages the personnel's schedule information, The condition file for being the operation schedule pipe ** system which cooperated the e-mail system which transmits and receives the personnel's electronic mail, and selecting an operation member required for an operating room and an operation, A means to be equipped with the personnel's e-mail destination information file, to acquire operation information from said medical order system, to collate operation information and said condition file, and to select an operating room and an operation member, A means to acquire the time with which it collates with the schedule information acquired from said schedule information management system, the schedule of said operating room and an operation member is checked, and empty conditions are filled, A means to create the schedule reservation information on said operating room and operation member, and to transmit to said schedule information management system, The operation schedule pipe ** system characterized by having a means to create operation information in the format of an electronic mail, and to add the destination of said operation member, and a means to transmit the electronic mail information which added the destination to said e-mail system.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[Field of the Invention]
[0001]
About the system which sets up and manages the schedule of an operation in a hospital, this invention cooperates especially with a medical order system, and is concerned with the system which sets up and manages the schedule of an operation.
[Background of the Invention]
[0002]
It is required for a schedule setup of a medical action to secure treatment locations, such as a medical practitioner, and not only a nurse's schedule but an operating room. The system which sets a medical order action like a publication as the patent reference 1 as a system which sets up the schedule of the conventional medical action based on treatment planning is known. This is a system which sets up health care planning in consideration of the schedule of not only the candidate and duration of a medical action but an operating room, or a laboratory, and is equipped with the function which searches and reserves the opening of an operating room at the time of an order setup.
[0003]
[Patent reference 1] JP,2001-101296,A
[Description of the Invention]
[Problem(s) to be Solved by the Invention]
[0004]
Also in a medical action, especially an operation is an action with which many people and devices are concerned, and in case it actually sets up the schedule of an operation, it needs to secure a location with the personnel having specific skill, or a specific facility. Although the schedule of an operation is set up in the above-mentioned conventional system only paying attention to the opening of an operating room, an actual schedule setup of an operating room determined the technique and the anesthetization according to the contents of the operation, determined a suitable operating room and a suitable staff by that cause, and has set them up in the procedure of reserving the idle time of the operating room. Moreover, the required staff needed to be selected by the technique and the anesthetization, a candidate's schedule needed to be adjusted, and there was a problem that operation schedule information had to be transmitted not only to a doctor in charge but to those persons concerned.
[0005]
In case the purpose of this invention solves the above-mentioned technical problem, cooperates with a medical order system and sets up an operation, it is offering the system which sets up a required location and a required device, and a member, and enables those schedule adjustment processings and reservation processings, and transfer of the information to the persons concerned.
[Means for Solving the Problem]
[0006]
In order to solve the above-mentioned technical problem, the operation schedule pipe ** system of this invention cooperates with a medical order system, the schedule information management system which manages the schedule information of a facility and the personnel, and the e-mail system which transmit and receive an electronic mail to the personnel. A medical order system is a system which creates the order of a medical action, and or it creates operation information and transmits to an operation schedule pipe ** system, in response to the adjustment directions information from a medical order system, an operation schedule pipe ** system acquires operation

information. A medical order system and an operation schedule pipe ** system may exist in another server, or may exist in the same server. The schedule of a facility and the personnel is managed, it is the system which receives schedule registration, modification, and deletion, and a schedule information acquisition request of an object facility and a candidate is received from an operation schedule pipe ** system, schedule information is created or it transmits to an operation schedule pipe ** system, the schedule retrieval request from an operation schedule pipe ** system is received, idle time retrieval of an object facility and a candidate is carried out, and a schedule information management system transmits the result to an operation schedule pipe ** system. An e-mail system is the usual email server, receives the e-mail information which the operation schedule pipe ** system created, and transmits an electronic mail to the destination attached to e-mail information. The united groupware is sufficient as a schedule information management system and an e-mail distribution system, and information may be transmitted and received between the groupware and an operation schedule pipe ** system here. Moreover, an operation schedule pipe ** system may exist in the same server as either a schedule information management system or a mail administration system and both.

[0007]

An operation schedule pipe ** system is equipped with the condition file and the personnel's destination information file which determine an operation member required for an operating room and an operation, and a schedule information temporary storage file. Moreover, an operation schedule pipe ** system acquires the operation information which is the detailed information of an operation from a medical order system, and is equipped with the function which collates operation conditions and a condition file and selects an operating room and an operation member. Furthermore, it refers for an operation schedule pipe ** system to a schedule information management system. The function to check the schedule of an operating room and an operation member, Or it has the function collated with the schedule of the object operating room by which acquired the schedule information on an object operating room and an object operation member from the schedule information management system, and stored in the schedule information temporary storage file, and the temporary law was carried out as operation information. The schedule reservation information on an operating room and an operation member is created by the schedule check result, and it has the function which reserves by transmitting to a schedule information management system. Furthermore, an operation schedule pipe ** system has the function to change the settled operation information into an e-mail format, the function which selects and adds the destination which corresponds from the personnel's destination information file to the created mail, and the function to transmit the e-mail information which added the destination to an e-mail distribution system, and to carry out e-mail distribution.

[0008]

In the operation schedule pipe ** system of this invention, first, a medical practitioner creates the order of an operation by the medical order system, and transmits the information to an operation schedule pipe ** system. An operation schedule pipe ** system collates the empty information on the operating room acquired from groupware with the operating room conditions registered into the file, and it judges whether an operating room can be used for the time which carried out the temporary law by order, and when it cannot use, it notifies to the screen of a medical information order system. The operation member conditions which double desirably and are registered into the file that what is necessary is to carry out only collating of an object operating room at least at this time, and the schedule of the member acquired from groupware are collated, and when a member does not gather, you may notify similarly. When an operating room can be used, operation order information is considered as decision. When operation order information is decided, the information which transmits the settled operation order information to an operation schedule pipe ** system, or considers operation information [finishing / transmission] as decision is transmitted.

[0009]

An operation schedule pipe ** system creates the schedule reservation information from operation information to the settled operating room and the settled operation member, and transmits it to groupware. The destination and the contents of e-mail which edit operation information into the form of the contents of e-mail, acquire the destination information on an operation member from a destination information file to coincidence, and correspond to it are transmitted to groupware. Groupware distributes e-mail to the destination which performs schedule registration of an operating room and an operation member which corresponds based on the received schedule reservation information, and corresponds using the received e-mail information.

[0010]

Moreover, the schedule information acquired from groupware is stored in the schedule information primary storing file, the schedule information before and behind operation order decision may be collated within an operation

schedule pipe ** system, the difference may be transmitted, and the schedule information on groupware may be changed.

[Effect of the Invention]

[0011]

As mentioned above, according to this invention, it becomes possible to carry out schedule adjustment of an operating room and the persons concerned to operation order creation time by once in consideration of fine operation conditions by setting up the operation schedule pipe ** system which performs intermediation with the groupware which manages the schedule of a medical order system, a facility, or the personnel, and sends and receives e-mail. Moreover, it becomes possible by carrying out e-mail distribution of the details, such as operation time and the contents, to the persons concerned to put into practice the signal transduction to the persons concerned at coincidence. Moreover, the readjustment at the time of schedule modification and re-transfer can also be carried out easily.

[Best Mode of Carrying Out the Invention]

[0012]

Hereafter, a drawing explains one gestalt of operation of this invention. Drawing 1 is the system configuration Fig. showing the operation gestalt of this invention.

10 is groupware with a schedule information management function and an e-mail transceiver function. Groupware 10 is not limited especially that what is necessary is just a system equipped with the function 13 to register by receiving schedule registration information from the exterior, and the function 11 to receive e-mail information and destination information from the exterior, and to transmit e-mail information to this destination. Groupware 10 is equipped with the equipment 14 which displays the facility, the personnel's schedule information storage file 12, and schedule other than the above.

20 is a medical order system. What is necessary is not to limit especially a medical order system, either but just to have the function 24 which extracts operation order information among the function 21 which creates order, the file 22 which accumulates order information, and order information, and is transmitted outside, the function 23 which matches and displays the schedule information received from the outside on said operation order information, and a display 25.

[0013]

30 is the operation schedule pipe ** system of this invention. The operation schedule pipe ** system 30 is equipped with the function which transmits and receives groupware 10 and the medical order system 20, and information, and is equipped with the condition file 33 which determines an operation member required for an operating room and an operation, the personnel's destination information file 31, the schedule information temporary storage file 35, an operating room and the function 34 extract an operation member, and the function 32 that creates the contents of e-mail and adds the destination of a member. The operation schedule pipe ** system 30 may be set up in the same server as a subsystem of the medical order system 20.

The medical order system 20 takes the lead in medical action management in a hospital, and it cooperates with the operation schedule pipe ** system 30. The medical order system 20 cooperates with the groupware 10 which performs schedule information management and e-mail transmission and reception through the operation schedule pipe ** system 30, and directs acquisition of required schedule information, registration, and e-mail transmission to the persons concerned.

[0014]

Drawing 2 is an example of the data configuration of the file with which groupware 10, the medical order system 20, and the operation schedule pipe ** system 30 are equipped, and the data configuration of the information transmitted and received between each system.

(a) is drawing showing the record format of the personnel's destination information file 31 with which the operation schedule pipe ** system 30 is equipped. 201 shows the personnel. 202 shows the personnel's 201 mail address used by groupware 10. 203 shows the personnel's occupational description. 204 shows whether e-mail is always distributed, when operation order occurs. 205, 206, 207, and 208 show whether e-mail is distributed to the persons concerned corresponding to the personnel, when extract processing of the persons-concerned information concerned is omitted by the case where the candidate personnel can become the persons involved in an operation and an operating room is reserved.

[0015]

(b) is drawing showing the record format of the condition file 33 with which the operation schedule pipe ** system 30 is equipped. 211, 212, and 213 show the processing conditions of an operation. 214, 215, 216, 217, and 218

show the use propriety of the object operating room under the conditions.
(c) is drawing showing the record format of the operation information 26 transmitted to the operation schedule pipe ** system 30 from the medical order system 20. 231 shows an operation day. 232 shows a candidate's operating room. 233 shows the start time of an operation. 234 shows the time of an operating room. 235-247 show the detail of operation information.
[0016]
(d) is drawing showing the record format of the schedule information 15 which the operation schedule pipe ** system 30 acquires from groupware 10. This shows the reservation information on an operating room [finishing / reservation / already], in an operation day and 252, an operating room and 253 show the start time of an operation, and 254 shows [251] the time of an operating room. 255 shows the contents of a schedule registered into groupware, for example, an operation name etc.
[0017]
Drawing 3 (a) is drawing showing the record format of the distribution mail information 37 that transmission is requested from the operation schedule pipe ** system 30 to groupware 10. 261 shows the destination of the mail to distribute. 262 shows contents, the e-mail text, an attached file, etc. of the mail to distribute.
Drawing 3 (b) is drawing showing the record format of the schedule information temporary storage file 35 with which the operation schedule pipe ** system 30 is equipped. Here, there are data registered first and the example which registers the information which changed it is shown. 271 and 276 show an operation day. 272 and 277 show an operating room. 273 and 278 show the start time of an operation. 274 and 279 show the time of an operating room. 275 and 280 show the contents of a schedule registered into groupware.
[0018]
Next, operation schedule setting processing is explained using drawing.
Drawing 4 is the processing flow of an operation schedule setup.
When a medical practitioner reserves an operating room, the operation schedule pipe ** system 30 is first started from the medical order system 20 (step 410). The operation schedule pipe ** system 30 acquires the schedule information 15 on contents as shown in drawing 2 (d) registered into groupware 10 (step 411), creates data as shown in drawing 3 (b) from the schedule information 15, and stores them in the schedule information temporary storage file 35 (step 412). The data stored at this time are the front [modification] information in drawing 3 (b).
[0019]
This schedule information 36 is transmitted to the medical order system 20 (step 413), and it displays on a display by the schedule display function 23 (step 414).
The medical practitioner who reserves an operating room newly inputs operation information as shown in drawing 2 (c) by the operation order creation function 21 (step 415), the operation information 26 is transmitted to the operation schedule pipe ** system 30, and the contents of the schedule information temporary storage file 35 are updated as after [modification] information in drawing 3 (b) using the operation information 26 (step 416). The operating room extract function 34 extracts the thing corresponding to the data of the condition file 33 as shown in coincidence from the operation information 26 at drawing 2 (b) of the operation schedule pipe ** system 30 (step 417), and it collates with the conditions of the operating room which carried out the temporary law for the operation information 26, and when incongruent in the service condition of an operating room, it displays whether it was incongruent on the display screen to which service condition (step 417-2).
[0020]
Also when the input of the operation information 26 is decided by the operation order creation function 21 of the medical order system 20 (step 418), renewal of informational and collating of an operating room service condition are performed similarly temporarily [aforementioned / schedule] (step 416 to 417-2), and it progresses to subsequent processings. When the service condition of an operating room is made decided here at the time of nonconformance, it shall be because subsequent processing is also continued [whether it is only supposed that it is whether an operating room is reserved compulsorily to display an incongruent message on a service condition, or]. Moreover, the schedule of the personnel who correspond to conditions here is acquired, and collating and the processing to adjust are excluded, and suppose that the persons concerned who set up at the time of order are notified by e-mail.
[0021]
The operation schedule pipe ** system 30 collates the candidate personnel data of the operation information 26 with the personnel's destination information file 31, and creates the destination information 261 (step 419). When persons-concerned data are furthermore a null in the operation information 26, it is regarded as an abbreviation and

the destination information 261 of the candidate personnel, i.e., the persons-concerned default data corresponding to the family doctor by whom only data are registered, to the persons concerned is created from the destination information file 31 (step 420). Furthermore it always collates with distribution data, and the destination information 261 is determined (step 421). Next, the operation information 26 is changed into the contents 262 of e-mail which are the e-mail text by the contents creation function 32 of e-mail (step 422), it matches with the destination information 261, and the distribution mail information 37 is completed. The operation schedule pipe ** system 30 transmits the distribution mail information 37 to groupware 10 with distribution directions (step 423), and groupware 10 distributes e-mail to the persons concerned by the e-mail distribution function 11 (step 424).

[0022]

On the other hand, the operation schedule pipe ** system 30 extracts the information which should be registered into groupware 10 from the schedule information on the schedule information temporary storage file 35, and transmits it with registration directions as schedule information 15 (step 425). Groupware 10 registers the schedule information 15 into the schedule information storage file 12 by the schedule add function 13 (step 426), and deletes the data of the schedule temporary storage file after updating of the schedule information 15. (Step 427)

As mentioned above, the operating room which suits operation conditions through the operation schedule pipe ** system 30 from the medical order system 20 is reserved, and it becomes possible to distribute the mail which tells the persons concerned about operation time, a location, and the contents of an operation.

[0023]

When changing reservation of an operating room, the operation information 26 is inputted by the operation order creation function 21 of the medical order system 20, and it transmits to the operation schedule pipe ** system 30 (step 415), and the operation schedule pipe ** system 30 chooses the target record changed from the schedule information temporary storage file 35, and updates the contents of the operation information 26 as after [modification] information (step 416). Condition collating, the schedule registration after order decision, and e-mail message distribution processing are the same as that of the time of the above-mentioned new input.

When deleting reservation of an operating room, the operation information 26 is inputted by the operation order creation function 21 of the medical order system 20, it transmits to the operation schedule pipe ** system 30 (step 415), and the operation schedule pipe ** system 30 chooses the record of the object deleted from the schedule information temporary storage file 35.

[0024]

The medical order system 20 makes deletion directions decide by the operation order creation function 21, and is transmitted to the operation schedule pipe ** system 30. The operation schedule pipe ** system 30 collates the personnel corresponding to the operation information 26 to delete with the destination information file 31, extracts them, and determines the destination information 261. The extract of connection and collating of regular distribution necessity are the same as that of the time of a new input. The contents of e-mail which tell the purport of operation information deletion by the contents creation function 32 of e-mail are created, and it distributes similarly. On the other hand, the information which should be deleted from the schedule information on the schedule information temporary storage file 35 is extracted, it transmits to groupware 10 with deletion directions as schedule information 15, and groupware 10 deletes the schedule information 15 from the schedule information storage file 12 by the schedule add function 13.

[Brief Description of the Drawings]

[0025]

[Drawing 1] It is the block diagram of the destination information management system which cooperates with the order system of this invention.

[Drawing 2] It is the DS of the order system of this invention, and a destination information management system.

[Drawing 3] It is the DS of the order system of this invention, and a destination information management system, and drawing 3 (a) is drawing showing the record format of the distribution mail information 37 that transmission is requested from the operation schedule pipe ** system 30 to groupware 10, and drawing 3 (b) is drawing showing the record format of the schedule information temporary storage file 35 with which the operation schedule pipe ** system 30 is equipped.

[Drawing 4] It is a processing flow at the time of the operation reservation of a destination information management system which cooperates with the order system of this invention.

[Description of Notations]

[0026]

10 Groupware

11 E-mail Distribution Function
12 Schedule Information Storage Equipment
13 Scheduling Function
14 Display
15 Schedule Information
20 Medical Order System
21 Order Creation Function
22 Operation Information Storage Equipment
23 Schedule Display Function
24 Operation Information Transmitting Function
25 Display
24 Operation Information
30 Destination Information Management System
31 Destination Definition Information Storage Equipment
32 The Contents Creation Function of E-mail
33 Extraction Condition Definition Information Storage Equipment
34 Operating Room Extract Function
35 Schedule Information Temporary Storage File
36 Schedule Information
37 Distribution Mail Information

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TECHNICAL FIELD

[Field of the Invention]
[0001]
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PRIOR ART

[Background of the Invention]
[0002]
It is required for a schedule setup of a medical action to secure treatment locations, such as a medical practitioner, and not only a nurse's schedule but an operating room. The system which sets a medical order action like a publication as the patent reference 1 as a system which sets up the schedule of the conventional medical action based on treatment planning is known. This is a system which sets up health care planning in consideration of the schedule of not only the candidate and duration of a medical action but an operating room, or a laboratory, and is equipped with the function which searches and reserves the opening of an operating room at the time of an order setup.
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EFFECT OF THE INVENTION

[Effect of the Invention]
[0011]
As mentioned above, according to this invention, it becomes possible to carry out schedule adjustment of an operating room and the persons concerned to operation order creation time by once in consideration of fine operation conditions by setting up the operation schedule pipe ** system which performs intermediation with the groupware which manages the schedule of a medical order system, a facility, or the personnel, and sends and receives e-mail. Moreover, it becomes possible by carrying out e-mail distribution of the details, such as operation time and the contents, to the persons concerned to put into practice the signal transduction to the persons concerned at coincidence. Moreover, the readjustment at the time of schedule modification and re-transfer can also be carried out easily.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention]
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Also in a medical action, especially an operation is an action with which many people and devices are concerned, and in case it actually sets up the schedule of an operation, it needs to secure a location with the personnel having specific skill, or a specific facility. Although the schedule of an operation is set up in the above-mentioned conventional system only paying attention to the opening of an operating room, an actual schedule setup of an operating room determined the technique and the anesthetization according to the contents of the operation, determined a suitable operating room and a suitable staff by that cause, and has set them up in the procedure of reserving the idle time of the operating room. Moreover, the required staff needed to be selected by the technique and the anesthetization, a candidate's schedule needed to be adjusted, and there was a problem that operation schedule information had to be transmitted not only to a doctor in charge but to those persons concerned.
[0005]
In case the purpose of this invention solves the above-mentioned technical problem, cooperates with a medical order system and sets up an operation, it is offering the system which sets up a required location and a required device, and a member, and enables those schedule adjustment processings and reservation processings, and transfer of the information to the persons concerned.

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MEANS

[Means for Solving the Problem]
[0006]
In order to solve the above-mentioned technical problem, the operation schedule pipe ** system of this invention cooperates with a medical order system, the schedule information management system which manages the schedule information of a facility and the personnel, and the e-mail system which transmit and receive an electronic mail to the personnel. A medical order system is a system which creates the order of a medical action, and or it creates operation information and transmits to an operation schedule pipe ** system, in response to the adjustment directions information from a medical order system, an operation schedule pipe ** system acquires operation information. A medical order system and an operation schedule pipe ** system may exist in another server, or may exist in the same server. The schedule of a facility and the personnel is managed, it is the system which receives schedule registration, modification, and deletion, and a schedule information acquisition request of an object facility and a candidate is received from an operation schedule pipe ** system, schedule information is created or it transmits to an operation schedule pipe ** system, the schedule retrieval request from an operation schedule pipe ** system is received, idle time retrieval of an object facility and a candidate is carried out, and a schedule information management system transmits the result to an operation schedule pipe ** system. An e-mail system is the usual email server, receives the e-mail information which the operation schedule pipe ** system created, and transmits an electronic mail to the destination attached to e-mail information. The united groupware is sufficient as a schedule information management system and an e-mail distribution system, and information may be transmitted and received between the groupware and an operation schedule pipe ** system here. Moreover, an operation schedule pipe ** system may exist in the same server as either a schedule information management system or a mail administration system and both.
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An operation schedule pipe ** system is equipped with the condition file and the personnel's destination information file which determine an operation member required for an operating room and an operation, and a schedule information temporary storage file. Moreover, an operation schedule pipe ** system acquires the operation information which is the detailed information of an operation from a medical order system, and is equipped with the function which collates operation conditions and a condition file and selects an operating room and an operation member. Furthermore, it refers for an operation schedule pipe ** system to a schedule information management system. The function to check the schedule of an operating room and an operation member, Or it has the function collated with the schedule of the object operating room by which acquired the schedule information on an object operating room and an object operation member from the schedule information management system, and stored in the schedule information temporary storage file, and the temporary law was carried out as operation information. The schedule reservation information on an operating room and an operation member is created by the schedule check result, and it has the function which reserves by transmitting to a schedule information management system. Furthermore, an operation schedule pipe ** system has the function to change the settled operation information into an e-mail format, the function which selects and adds the destination which corresponds from the personnel's destination information file to the created mail, and the function to transmit the e-mail information which added the destination to an e-mail distribution system, and to carry out e-mail distribution.
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An operation schedule pipe ** system creates the schedule reservation information from operation information to the settled operating room and the settled operation member, and transmits it to groupware. The destination and the contents of e-mail which edit operation information into the form of the contents of e-mail, acquire the destination information on an operation member from a destination information file to coincidence, and correspond to it are transmitted to groupware. Groupware distributes e-mail to the destination which performs schedule registration of an operating room and an operation member which corresponds based on the received schedule reservation information, and corresponds using the received e-mail information.

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[Translation done.]

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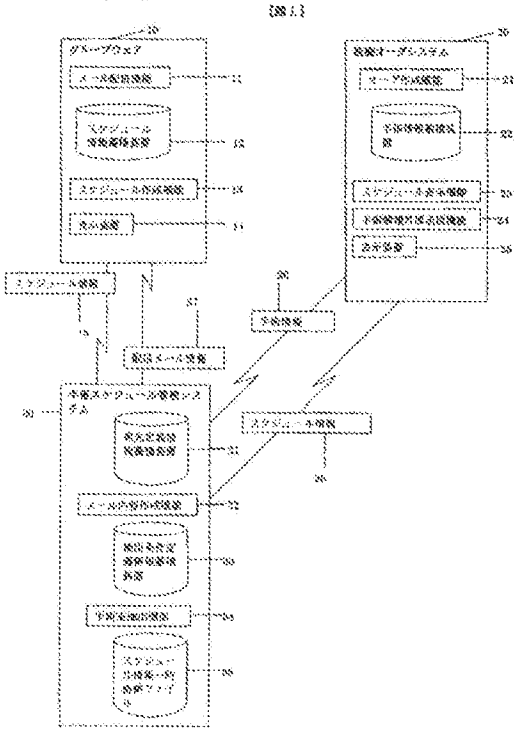
JPO and INPIT are not responsible for any damages caused by the use of this translation.

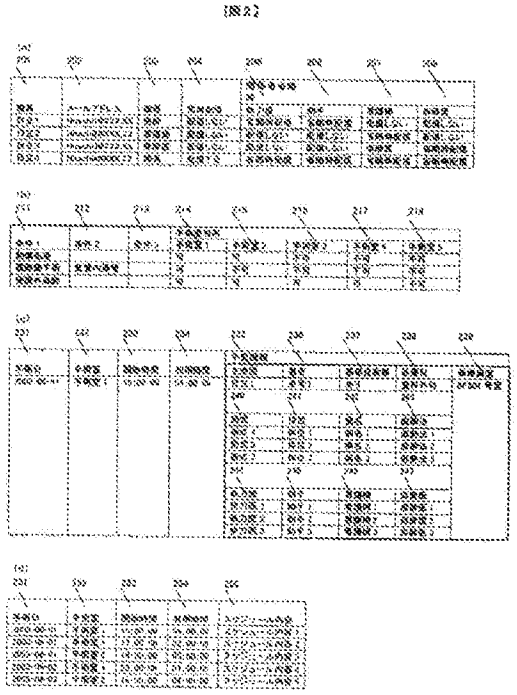
1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DRAWINGS

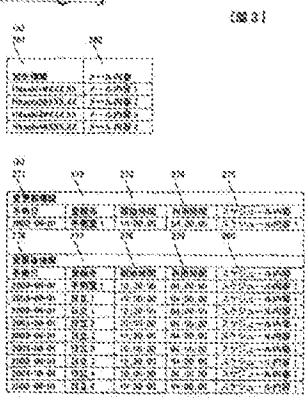
[Drawing 1]



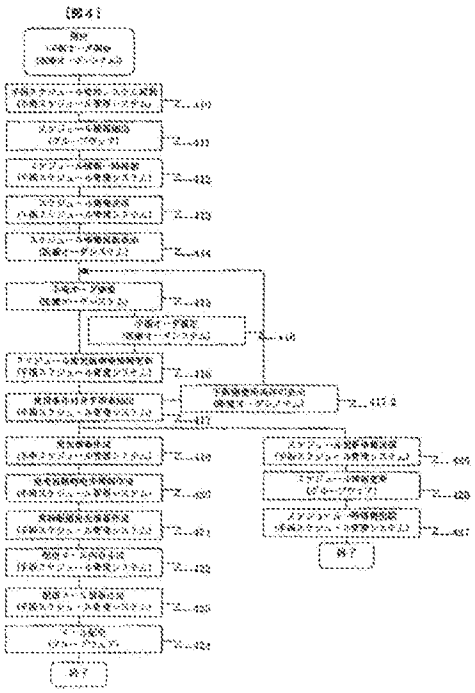
[Drawing 2]



[Drawing 3]



[Drawing 4]



[Translation done.]